

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

416 9th STREET, ROOM 1310
SACRAMENTO, CALIFORNIA 95814
(916) 445-9686

6 copies
please
Bob R



October 26, 1983

Mr. Nathan Lau
Water Supply Section (W2)
US EPA, Region IX
215 Fremont Street
San Francisco, California 94105

Dear Nathan:

Minor Aquifer Exemption
McCool Ranch Field
Monterey County

7/24/85

Ken Henderson/Reid

Ken said that a public notice
for this project was placed in
the Paso Robles paper in
April of 1983. The notice
stated that the injected fluid
would be injected into the "D" zone.

Project approval was not
granted because it was
discovered that the aquifer
exemption had been overlooked.

In accordance with your instructions and the Summary of
Agreements on Major/Minor Aquifer Exemptions, the Calif-
ornia Division of Oil and Gas is hereby requesting a
minor aquifer exemption. The aquifer is identified as
the "D" zone and located within the boundaries of the
McCool Ranch oil field in Monterey County. The "D" zone
is a nonproducing horizon containing a total dissolved
concentration of more than 3000 mg/liter.

The pertinent information for minor exemptions is indicated
on the enclosed Aquifer Exemption Summary. If you have any
questions regarding the exemption request, please contact
Al Koller at the Division's district office in Santa Maria
or Bob Reid in Sacramento. The address of the Santa Maria
office is 301 W. Church Street, P.O. Box 227, Santa Maria
93458; phone (805) 925-2686.

Sincerely,

M. G. Meffert
State Oil and Gas Supervisor

cc: Al Koller, Santa Maria
Bob Reid, Sacramento

AQUIFER EXEMPTION
SUMMARY SHEET

Date application received in Region: _____

Date application sent the Headquarters: _____

Date action needed: _____

APPLICANT: Phillips Petroleum Company

HEARING DATE: _____

I.D. NUMBER: _____

EXEMPTION DESCRIPTION (Township, Range, Section, Quarter section and
of affected area):

T.22S, R.10E, M.D.B&M - Sections 14, 15, 22 and 23

FIELD: McCool Ranch - Monterey County

AQUIFER TO BE EXEMPTED: "D" sand (depth to top of zone varies from 1825' - 2050')

JUSTIFICATION FOR EXEMPTION:

(X) Aquifer is not a source of drinking water and will not serve as a source
of drinking water in the future because it:

(x) Has a TDS level above 3,000

() Is hydrocarbon bearing

() Is too deep

() Is a Class III well subject to subsidence

() Is too contaminated (name contaminant(s)):

() Other: _____

PURPOSE OF INJECTION: Disposal of water produced from Phillips Petroleum Co. oil
wells in the McCool Ranch field.

INJECTED WATER QUALITY: 7020 PPM TDS

INJECTION WATER SOURCE: Produced oil-
field water

FORMATION WATER QUALITY: 7520 PPM TDS

APPLICANT: Phillips Petroleum Company

HEARING DATE: _____

I.D. NUMBER: _____

OIL OR MINERAL PRODUCTION HISTORY: Phillips started production in October of 1981 on "Brinan A" 1 and March 1982 on "Brinan A" 4, the only two commercial wells on the lease. Oil production was 66 bbls in 1981, 4493 bbls in 1982 & 5632 bbls in the first 6 months of 1983. Waste water production in the first 6 months of 1983 has increased to 38,846 bbl.

ACTIVE INJECTION WELLS INJECTING INTO SAME FORMATION:

| Field | Location | Injection Interval | Injection Source | Total Depth |
|--------------|--|-------------------------|------------------|-------------|
| McCool Ranch | 22-22S-10E, "Sinclair" 3, 1650'-2169' | Produced oilfield water | 2174 | |
| San Ardo | M.D.B&M ("D" & Lombardi) | | | |
| San Ardo | 7-23S-11E, "Hamby" 817-7, 1740-2465' | Produced oilfield water | 2654 | |
| San Ardo | M.D.B&M (S.Marg., "D" & "E" sd & Lombardi) | | | |
| San Ardo | 6-23S-11E, "Orradre" 801-6, 1620-2340' | Produced oilfield water | 2569 | |
| San Ardo | M.D.B&M (S.Marg., "D" & "E" sd & Lombardi) | | | |
| San Ardo | 6-23S-11E, "Orradre" 803-6, 1640-2380' | Produced oilfield water | 2594 | |
| | M.D.B&M (S.Marg., "D" & "E" sd & Lombardi) | | | |

WATER USE IN AREA: Ground water is used in the area for irrigation, watering livestock and drinking water for farm and small town population. The base of strata that is generally used for freshwater is above 600'.

REMARKS: This non-hydrocarbon-producing aquifer was being used for injection of oil-field waste water as early as 1979. When the Division of Oil and Gas applied for primacy, this aquifer was inadvertently overlooked in Table 1, Appendix B for McCool Ranch field. The "D" sand extends throughout the field and into the adjacent San Ardo field and beyond. The attached map shows the boundary of the McCool Ranch field. The "D" sand did receive an exemption in the adjacent San Ardo field.

SAN ARDO OIL FIELD

Monterey County

Dist 3

